

**00000000000000000000000000000000**

<120> Methods for Detecting Target Nucleic Acids Using  
Coupled Ligation and Amplification

<140> Not Yet Assigned

<160> 94

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33

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56

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<211> 94

<212> DNA

<213> Homo sapiens

$\langle 220 \rangle$

<223> chromosome 3p24-p25; GenBank number af052155;  
Unigene description/ID: SEC13 (*S. cerevisiae*)-like



<213> Homo sapiens

<220>

<223> chromosome 4p16; GenBank number AC006230; Unigene  
description/ID: RNA-binding protein S1,  
serine-rich domain (RNPSI)/Hs.75104

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<223> allele of SEQ ID NO: 10

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acacaccgca cccaccact gtactctgaa attggcgagt gagttgagag ccagctctgc 60  
ggggtcatca cgcagccatg gttgtgcctg 90

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<211> 90

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ggggtcatca cgcagccatg gttgtgcctg 90

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<211> 33

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<213> Homo sapiens

<400> 11

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<211> 30

<212> DNA

<213> Homo sapiens

<400> 12

cactcacgca aacgggtag cctgtggcag 30

<210> 13

<211> 57

<212> DNA

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<400> 13



**0000000000000000000000000000000000**

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5



[illegible]

29

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gaaaattatg atctttgtta ggatcacctg taccgtcccg catgtaaaac gacggccagt 60

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Unigene description/ID: antioxidant protein 1  
(AOP1)/Hs.75454

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<223> allele of SEQ ID NO: 34; pivotal nucleotide (50)



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 gtgtaactcc tgcaatgaat gtttatgtga ttgaagc 97

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 <212> DNA  
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<400> 36  
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<210> 37  
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<400> 37  
 cactcagca aacgggatcc aaccaacttg t 31

<210> 38  
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<400> 38  
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 description/ID: vimentin (VIM)/Hs.2064

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 aaaactcaaa 70

<210> 40  
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 <212> DNA

**SECRET**

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aaaactcaaa                                     70
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<213> Homo sapiens

aactctctcc caagagcgac cgctctgacc acc 33

<213> Homo sapiens

cactcacgca aacggggccgc tctgaccact 30

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gacaggcaga gcaaaggtgc tggctggatt atggcgatgt aaaacgacgg ccagt 55

<213> Homo sapiens

<223> chromosome Chr.11, 540.2 cR, YAC cont; GenBank  
number AW663645; Unigene description/ID: ESTs,  
weakly similar to Phospholemmann precursor /Hs.3807

<223> allele of SEQ ID NO: 45

ggagcctgct gagtctccaa cccacctcgc tcaccgctct gaccaccgac aggcagagca 60

aaggatgcgg gagttgcctc tgctgcccata cta

93

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<223> allele of SEQ ID NO: 44; pivotal nucleotide (47)

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<210> 46

<211> 34

<212> DNA

<213> Homo sapiens

<400> 46

aactctctcc caagagcgat taggtgctaa accg 34

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<212> DNA

<213> Homo sapiens

<400> 47

cactcacgca aacgggtag gtgctaaacc a 31

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tttattttcc acggatggaa cgatcacgtg cgcaacgatg taaaacgacg gccagt 56

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<212> DNA

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AW593045; Unigene description/ID:  
ubiquitin-conjugating enzyme E2L 6/Hs.169895

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tgagtcagcc aagccactga tgggaatata cagatttagg tgctaaaccg tttattttcc 60  
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<211> 97

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<213> Homo sapiens

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acggatgagt cacaatctga agaatcaaac ttccatc 97

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<210> 54

<211> 94

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<213> Homo sapiens

**09-07-2016**

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<400> 56

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13

<210> 59  
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 AW592223; Unigene description/ID: ESTs, weakly  
 similar to C. elegans sulphatases /Hs.12124

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 <223> allele of SEQ ID NO: 59; pivotal nucleotide (51)

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 ttagaggaaa ggtgccgccc tctgtttcca tgacttc 97

<210> 61  
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<210> 62  
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<400> 62  
 cactcacgca aacgggatta aaagagcaaa gtta 34

<210> 63  
 <211> 56  
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<213> Homo sapiens

<400> 63

cccctccctt tcttacagtt cgcactcgca actccgcatg taaaacgacg gccagt 56

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<211> 99

<212> DNA

<213> Homo sapiens

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<223> chromosome Chr.18, 19.6 cR; GenBank number  
AW576208; Unigene description/ID: KIAA0249 gene  
product/ Hs. 166318

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<223> allele of SEQ ID NO: 65

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ttttaataat tatgttcagc ctatgatgaa gtatttgat 99

<210> 65

<211> 99

<212> DNA

<213> Homo sapiens

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<223> allele of SEQ ID NO: 64; pivotal nucleotide (50)

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ttttaataat tatgttcagc ctatgatgaa gtatttgat 99

<210> 66

<211> 19

<212> DNA

<213> Homo sapiens

<220>

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aactctctcc caagagcga 19

<210> 67

<211> 16

<212> DNA

**SECRET**

<223> primer

cactcacgca aacggg

16

<211> 18

<213> Homo sapiens

<223> primer

actggccgtc gttttaca

18

<211> 94

<213> Homo sapiens

<223> complement of SEQ ID NO: 4

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gcccaggaag gggcagtcct ggagctggcg ggtg

94

<211> 90

<213> Homo sapiens

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ttcagagtac agtgggtgggg tgcggtgtgt

90

<211> 88

<213> Homo sapiens



100-443886-100

<400> 71

<210> 72

<212> DNA

<213> Homo sapiens

<223> complement of SEQ ID NO: 19

<400> 72

<210> 73

<211> 99

<212> DNA

<213> Homo sapiens

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<223> complement of SEQ ID NO: 24

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taaggaactt atgacctaaa gcaaaggtaa actttcttg 99

<210> 74

$\langle 211 \rangle$  90

<212> DNA

<213> Homo sapiens

$\langle 220 \rangle$

<223> complement of SEQ ID NO: 29

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qtcaatccaa qaagaagatg ttgttgaact 90

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<211> 97

<212> DNA

<213> Homo sapiens

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ctttgttagc ttaaaagaaa attcagttta atacaaa 97

<210> 76

<211> 70

<212> DNA

<213> Homo sapiens

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<223> complement of SEQ ID NO: 39

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tttgagtttt tccaaagatt tattgaagca gaaccaagtt gggtggatac ttgctggaaa 60  
aaaaaaagca 70

<210> 77

<211> 93

<212> DNA

<213> Homo sapiens

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tgagcgaggt gggttgagaga ctcagcaggc tcc 93

<210> 78

<211> 97

<212> DNA

<213> Homo sapiens

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<223> complement of SEQ ID NO: 49

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aaatctgtat attcccatca gtggcttggc tgactca 97

<210> 79

<211> 94

<212> DNA

<213> Homo sapiens

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**POLYMER LETTERS**

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**Table 1**

Parameter	Value
Initial concentration of polymer solution, g/dl	0.5
Temperature of solution, °C	25
Time of exposure to light, h	24
Intensity of light, W/m <sup>2</sup>	100
Wavelength of light, nm	365
Distance from source to sample, cm	10
Thickness of film, μm	10
Area of irradiation, cm <sup>2</sup>	10
Volume of solvent, ml	10
Concentration of initiator, mol/l	0.01
Concentration of monomer, mol/l	0.1
Concentration of inhibitor, mol/l	0.001
Concentration of catalyst, mol/l	0.001
Concentration of stabilizer, mol/l	0.001
Concentration of antioxidant, mol/l	0.001
Concentration of radical scavenger, mol/l	0.001
Concentration of chain transfer agent, mol/l	0.001
Concentration of crosslinking agent, mol/l	0.001
Concentration of compatibilizer, mol/l	0.001
Concentration of surfactant, mol/l	0.001
Concentration of emulsifier, mol/l	0.001
Concentration of dispersant, mol/l	0.001
Concentration of thickener, mol/l	0.001
Concentration of rheology modifier, mol/l	0.001
Concentration of viscosity enhancer, mol/l	0.001
Concentration of flow improver, mol/l	0.001
Concentration of anti-settling agent, mol/l	0.001
Concentration of defoamer, mol/l	0.001
Concentration of antifoam, mol/l	0.001
Concentration of foam breaker, mol/l	0.001
Concentration of surface active agent, mol/l	0.001
Concentration of wetting agent, mol/l	0.001
Concentration of spreading agent, mol/l	0.001
Concentration of adhesion promoter, mol/l	0.001
Concentration of primer, mol/l	0.001
Concentration of sealant, mol/l	0.001
Concentration of adhesive, mol/l	0.001
Concentration of bonding agent, mol/l	0.001
Concentration of coating agent, mol/l	0.001
Concentration of protective layer, mol/l	0.001
Concentration of barrier layer, mol/l	0.001
Concentration of release layer, mol/l	0.001
Concentration of sacrificial layer, mol/l	0.001
Concentration of etchant, mol/l	0.001
Concentration of developer, mol/l	0.001
Concentration of resist, mol/l	0.001
Concentration of photoresist, mol/l	0.001
Concentration of photoemulsion, mol/l	0.001
Concentration of photoinitiator, mol/l	0.001
Concentration of photoreactor, mol/l	0.001
Concentration of photomask, mol/l	0.001
Concentration of phototool, mol/l	0.001
Concentration of photopattern, mol/l	0.001
Concentration of photopolymer, mol/l	0.001
Concentration of photoinhibitor, mol/l	0.001
Concentration of photostabilizer, mol/l	0.001
Concentration of photoprotectant, mol/l	0.001
Concentration of photocrosslinker, mol/l	0.001
Concentration of photocuring agent, mol/l	0.001
Concentration of photocatalyst, mol/l	0.001
Concentration of photocofactor, mol/l	0.001
Concentration of photocoupler, mol/l	0.001
Concentration of photodetector, mol/l	0.001
Concentration of photodiode, mol/l	0.001
Concentration of phototransistor, mol/l	0.001
Concentration of photovoltaic cell, mol/l	0.001
Concentration of photoreceptor, mol/l	0.001
Concentration of photocopier, mol/l	0.001
Concentration of photocopier drum, mol/l	0.001
Concentration of photocopier toner, mol/l	0.001
Concentration of photocopier paper, mol/l	0.001
Concentration of photocopier ink, mol/l	0.001
Concentration of photocopier cartridge, mol/l	0.001
Concentration of photocopier unit, mol/l	0.001
Concentration of photocopier system, mol/l	0.001
Concentration of photocopier component, mol/l	0.001
Concentration of photocopier part, mol/l	0.001
Concentration of photocopier assembly, mol/l	0.001
Concentration of photocopier module, mol/l	0.001
Concentration of photocopier subsystem, mol/l	0.001
Concentration of photocopier interface, mol/l	0.001
Concentration of photocopier driver, mol/l	0.001
Concentration of photocopier controller, mol/l	0.001
Concentration of photocopier manager, mol/l	0.001
Concentration of photocopier administrator, mol/l	0.001
Concentration of photocopier operator, mol/l	0.001
Concentration of photocopier user, mol/l	0.001
Concentration of photocopier customer, mol/l	0.001
Concentration of photocopier client, mol/l	0.001
Concentration of photocopier partner, mol/l	0.001
Concentration of photocopier vendor, mol/l	0.001
Concentration of photocopier supplier, mol/l	0.001
Concentration of photocopier manufacturer, mol/l	0.001
Concentration of photocopier distributor, mol/l	0.001
Concentration of photocopier retailer, mol/l	0.001
Concentration of photocopier wholesaler, mol/l	0.001
Concentration of photocopier importer, mol/l	0.001
Concentration of photocopier exporter, mol/l	0.001
Concentration of photocopier agent, mol/l	0.001
Concentration of photocopier broker, mol/l	0.001
Concentration of photocopier dealer, mol/l	0.001
Concentration of photocopier merchant, mol/l	0.001
Concentration of photocopier trader, mol/l	0.001
Concentration of photocopier investor, mol/l	0.001
Concentration of photocopier lender, mol/l	0.001
Concentration of photocopier borrower, mol/l	0.001
Concentration of photocopier creditor, mol/l	0.001
Concentration of photocopier debtor, mol/l	0.001
Concentration of photocopier owner, mol/l	0.001
Concentration of photocopier possessor, mol/l	0.001
Concentration of photocopier holder, mol/l	0.001
Concentration of photocopier claimant, mol/l	0.001
Concentration of photocopier beneficiary, mol/l	0.001
Concentration of photocopier legatee, mol/l	0.001
Concentration of photocopier heir, mol/l	0.001
Concentration of photocopier estate, mol/l	0.001
Concentration of photocopier inheritance, mol/l	0.001
Concentration of photocopier succession, mol/l	0.001
Concentration of photocopier probate, mol/l	0.001
Concentration of photocopier will, mol/l	0.001
Concentration of photocopier testament, mol/l	0.001
Concentration of photocopier last wish, mol/l	0.001
Concentration of photocopier final desire, mol/l	0.001
Concentration of photocopier ultimate intent, mol/l	0.001
Concentration of photocopier end goal, mol/l	0.001
Concentration of photocopier objective, mol/l	0.001
Concentration of photocopier purpose, mol/l	0.001
Concentration of photocopier aim, mol/l	0.001
Concentration of photocopier intention, mol/l	0.001
Concentration of photocopier motive, mol/l	0.001
Concentration of photocopier reason, mol/l	0.001
Concentration of photocopier cause, mol/l	0.001
Concentration of photocopier effect, mol/l	0.001
Concentration of photocopier result, mol/l	0.001
Concentration of photocopier consequence, mol/l	0.001
Concentration of photocopier outcome, mol/l	0.001
Concentration of photocopier event, mol/l	0.001
Concentration of photocopier incident, mol/l	0.001
Concentration of photocopier occurrence, mol/l	0.001
Concentration of photocopier happening, mol/l	0.001
Concentration of photocopier case, mol/l	0.001
Concentration of photocopier situation, mol/l	0.001
Concentration of photocopier state, mol/l	0.001
Concentration of photocopier condition, mol/l	0.0

[illegible][illegible]

**Table 1**

Parameter	Value
Initial concentration of polymer solution, g/dl	0.5
Temperature, °C	30
Time of exposure, min	60
Concentration of initiator, mol/l	0.001
Concentration of monomer, mol/l	0.01
Concentration of solvent, mol/l	0.99
Concentration of initiator, mol/l	0.001
Concentration of monomer, mol/l	0.01
Concentration of solvent, mol/l	0.99

[illegible][illegible][illegible][illegible][illegible][illegible][illegible]

<220>

<223> complement of SEQ ID NO: 10

<400> 83

caggcacaac catggctgcg tgatgacccc gcagagctgg ctctccactc actcgccaat 60  
ttcagagtac agtgggtggg tgcggtgtgt 90

<210> 84

<211> 88

<212> DNA

<213> Homo sapiens

<220>

<223> complement of SEQ ID NO: 15

<400> 84

gagatttagc agctttgtcg tcatgtagca caaagtttct ctttactgcc acaggctaag 60  
aatgctgaac aggaaaggca ccaaagaa 88

<210> 85

<211> 98

<212> DNA

<213> Homo sapiens

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<223> complement of SEQ ID NO: 20

<400> 85

ttaaattgct gtctccccgc ggatcatggg ctctctgagg acagggaccg gcctgtctgt 60  
ccactgctgt aaccccgcgc cggcataggg acctaagg 98

<210> 86

<211> 98

<212> DNA

<213> Homo sapiens

<220>

<223> complement of SEQ ID NO: 25

<400> 86

cacaaatttg cacataaaga atgtcacgaa cagccatgta tccatatacg gcaatcaa 60  
aaggaactta tgacctaaag caaaggtaaa ctttcttg 98

<210> 87

<211> 90

<212> DNA

<213> Homo sapiens

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